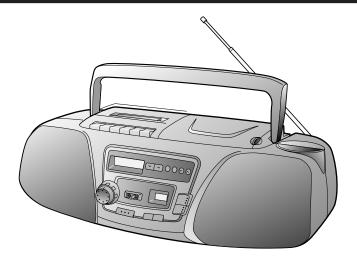
# SHARP

# **SERVICE MANUAL**

No. S8870QTCD131/



# QT-CD131 QT-CD131C

Illustration: QT-CD131



 In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified should be used

#### **CONTENTS**

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PARTS GUIDE/EXPLODED VIEW	
PACKING OF THE SET (FOR QT-CD131 ONLY)	

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

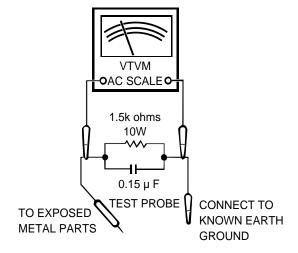
# **IMPORTANT SERVICE NOTES (FOR QT-CD131 ONLY)**

#### BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

- Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
- 2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
- 3. To be sure that no shock hazard exists, check for leakage current in the following manner.
- \* Plug the AC line cord directly into a 120 volt AC outlet.
- \* Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
- \* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
- \* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

#### **SPECIFICATIONS**

General

Power source: AC 120V, 60 Hz

DC 12 V [ "D" size (UM/SUM-1, R20 or HP-2) battery x 8]

DC 3 V ["AA" size (UM/SUM-3, R6

or HP-7) battery x 2 for tuner

memory]

Power consumption: 20 W

Output power: FTC; 2.0 W min. RMS per channel into 8 ohms from 150 Hz to 20 kHz,

with no more than 10 % total harm-

onic distortion. RMS; 2.3 W/CH

(DC operation, 10 % T.H.D.)

Output power: RMS; 2.3 W/CH

(131C) (DC operation, 10 % T.H.D.)

Speakers: 4" (10 cm) full-range speaker x 2

Output terminals: Headphage: 16 50 above.

Output terminals: Headphones; 16-50 ohms (recommended; 32 ohms)

**Dimensions:** Width; 18-15/16" (480 mm)

Height; 6-1/16" (153 mm) Depth; 10" (254 mm)

Weight: 7.1 lbs. (3.2 kg) without batteries

Radio

Frequency range: FM; 87.5 - 108 MHz

AM; 530 - 1,702 kHz

■ Tape recorder

Frequency response: 50 - 14,000 Hz (Normal tape)

Signal/noise ratio: 50 dB

Wow and flitter: 0.25 % (WRMS)

**Motor:** DC 12 V electric governor

Bias system: AC bias
Erase system: Magnet erase

Compact disc player

**Disc:** Compact disc

Signal readout: Non-contact, 3-beam semi-

conductor laser pickup

Audio channels: 2

**Quantization:** 16-bit linear quantization **Filter:** 4-tims oversampling digital filter

D/A converter: 1-bit D/A converter Wow and flutter: Unmeasurable

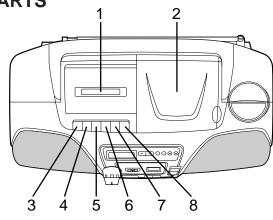
(less than 0.001% W. peak)

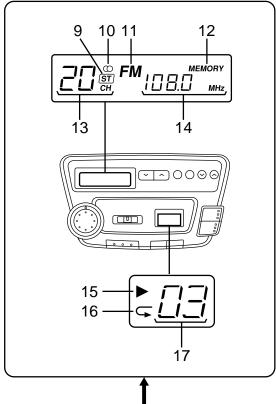
Specifications for this model are subject to change without

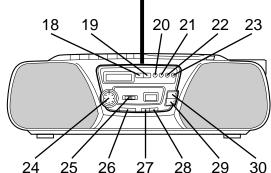
prior notice.

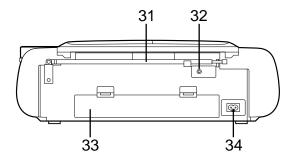
#### NAMES OF PARTS

- 1. Cassette Compartment
- 2. CD Compartment
- 3. (TAPE) Record Button:
- 4. (TAPE) Play Button: ▶
- 5. (TAPE) Rewind Button: ◀◀
- 6. (TAPE) Fast Forward Button: ▶▶
- 7. (TAPE) Stop/Eject Button: ■/▲
- 8. (TAPE) Pause Button: ■
- 9. FM Stereo Mode Indicator: ST
- 10. FM Stereo Indicator:
- 11. Band Indicator: FM/AM
- 12. Memory Indicator
- 13. Preset Number Indicator
- 14. Frequency Indicator
- 15. (CD) Play Indicator: ▶
- 16. (CD) Repeat Indicator: -
- 17. (CD) Track Number Indicator
- 18. (TUNER) Preset Down Button: ✓
- 19. (TUNER) Preset Up Button:  $\wedge$
- 20. (TUNER) Band Selector Button
- 21. (TUNER) Preset Memory Button
- 22. (TUNER) Tuning Down Button: V
- 23. (TUNER) Tuning Up Button:
- 24. Volume Control
- 25. Stand-by, On/Function Switch
- 26. Extra Bass Button: X-BASS
- 27. (CD) Track Down/Review Button: ◄◄/◄◄
- 28. (CD) Track Up/Cue Button: ▶▶ / ▶▶
- 29. (CD) Stop Button:
- 30. (CD) Play/Repeat Button: ▶⊂
- 31. FM Telescopic Rod Aerial
- 32. Headphone Socket
- 33. Battery Compartment
- 34. AC Power Input Socket









#### **DISASSEMBLY**

#### **Caution on Disassembly**

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

- 1. Take cassette tape and compact disc out of the unit.
- 2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
- 3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
- 4. Take suffcient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Rear Cabinet	1. Screw (A1) x10 2. Socket (A2) x2	4-1 4-2
2	Top Cabinet (with CD Mechanism/ Tape Mechanism/ Main PWB)	1. Knob (B1) x1 2. Screw (B2) x3 3. Socket (B3) x2	4-2
3	Main PWB/ Switch PWB	1. Screw (C1) x8 2. Socket (C2) x4	4-3 4-3,5-2
4	Tuner Display PWB/ Switch PWB	1. Screw (D1) x3	5-1
5	Tape Mechanism	1. Screw (E1) x4	5-2
6	CD Mechanism	1. Screw (F1) x3	5-2
7	Terminal PWB	1. Screw(G1) x5 2. Hook(G2) x1	5-3
8	Battery PWB	1. Hook (H1) x2	5-4

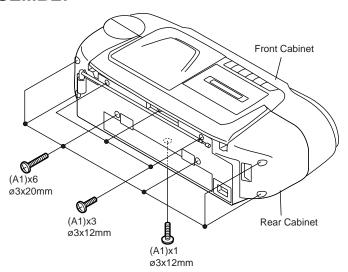


Figure 4-1

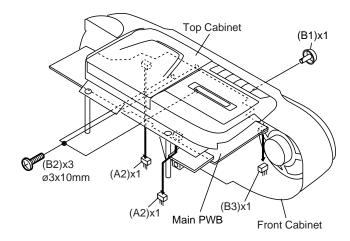


Figure 4-2

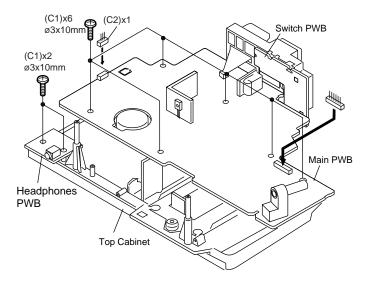
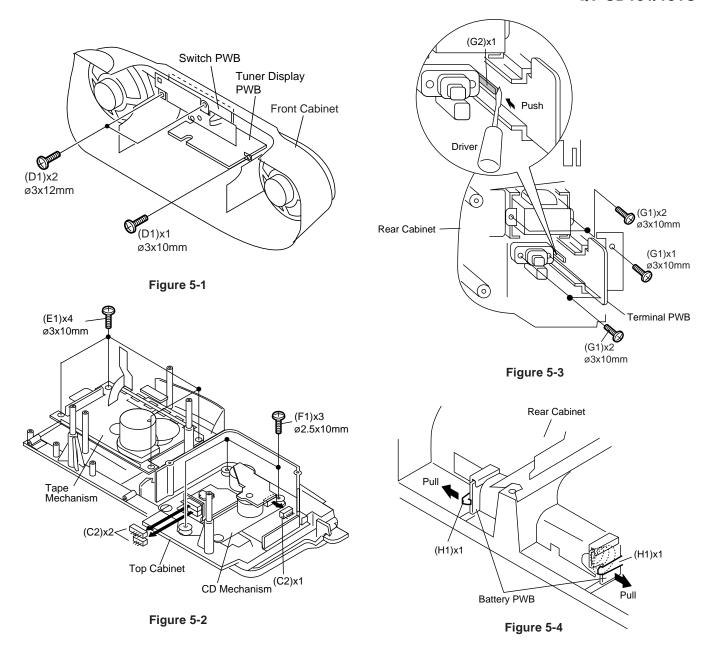


Figure 4-3



## REMOVING AND REINSTALLING THE MAIN PARTS

#### **CD MECHANISM SECTION**

Perform steps 1, 2, 3 and 6 of the disassembly method to remove the CD mechanism.

#### How to remove the pickup (See Fig. 5-5.)

- 1. Remove the screws (A1) x 2 pcs., to remove the shaft (A2) x1 pc.
- 2. Remove the stop washer (A3) x1 pc., to remove the gear (A4) x 1 pc.
- 3. Remove the pickup.

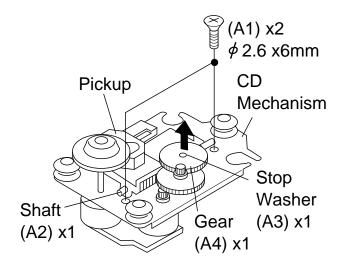


Figure 5-5

## **ADJUSTMENT**

#### **MECHANISM SECTION**

#### • Driving Force Check

Torque Meter	Specified Value
PLAY: TW-2412	Over 120 g

#### • Torque Check

Torque Meter	Specified Value	
Play: TW-2111	25 to 65 g.cm	
Fast Forward: TW-2231	60 to 130 g.cm	
Rewind: TW-2231	60 to 130 g.cm	

#### Head Azimuth

Torque Meter	Specified Value	
MTT-114	Output: Speaker Terminal (CNP201 Load resistance: 8 ohms)	

#### Tape Speed

Test	Adjusting	Specified	Instrument
Tape	Point	Value	Connection
MTT-111	In motor	3,000 ± 90 Hz	Output: Speaker Teaminal (CNP201 Load resistance: 8 ohms)

#### **TAPE SECTION**

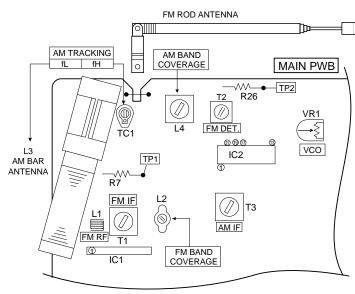
Position of each switch or control		
Volume control	Max	
Function switch	Tape/Power Off	
X-BASS	On	

#### Bias Oscillation

Adjustment Point	Specified Value	Instrument Connection
L301	82 kHz ± 6 kHz – 6 kHz	Pin 2 of CNP201

#### • Playback Amplifier Sensitivity Check

Test Tape Specified Value		Instrument Connection
MTT-118	1.8 V ± 3 dB	Speaker Terminal (Load resistance: 8 ohms)



**Figure 6-2 ADJUSTMENT POINTS** 

# TUNER SECTION

fL: Low-range frequency fH: High-renge frequency

#### • FM RF

Signal generator: 1 kHz, 75 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
Band Coverage	_	87.5 MHz	(fL): L2 2.0 ± 0.1 V	*1
RF	90.0 MHz (10~30 dB)	90.0 MHz	L1	*2

\*1. Input: Antenna, Output: TP1

\*2. Input: Antenna, Output: Speaker Terminal

#### Detection

Signal generator: 10.7 MHz, FM sweep generator

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	10.7 MHz	98.00 MHz	T1(Turn the core of T1 fully counter- clockwise.	Input: Pin 1 of IC1 Output: TP2

#### AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,720 kHz	T3	*1
Band Coverage	_	530 kHz	(fL): L4 1.0 ± 0.1 V	*3
Tracking	600 kHz 1,400 kHz	600 kHz 1,400 kHz	(fL): L3 (fH):TC1	*2

\*1. Input: Antenna, Output: Pin19 of IC2

\*2. Input: Antenna, Output: Speaker Terminal

\*3. Input: Input is not connected, Output: TP1

#### VCO Frequency

Adjusting Point	Specified Value	Instrument Connection
VR1	76 kHz ± 200 Hz	Pin 13, pin 21 and ground of IC2

#### Note:

After preparing the test circuit shown in Fig. 6-1, connect the Pin 13, Pin 21 and ground of the IC2 with the test circuit, and measure the value. At this time, apply a standard unmodulated signal input and adjust the VCO.

Pin 13 of IC2 Pin 21 of IC2

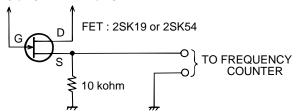


Figure 6-1 VCO FREQUENCY TEST CIRCUIT

#### **CD SECTION**

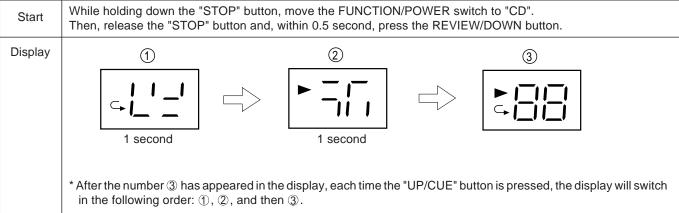
Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is necessary to reajust it.

Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

#### **TEST MODE**

Start	Then	While holding down the "STOP" button, move the FUNCTION/POWER switch to "CD".  Then, release the "STOP" button and, within 0.5 second, connect the TEST POINT to GND (within 0.5 second).  (See Fig. 7)							
Note	When the CD LID switch is in the OFF position, the unit will be able to enter the test mode.     However, playback cannot be performed in this mode.     You can only move the pickup.     The LCD display should be the same as it is for normal CD operations.								
Operation	1	The use of the "UP/CUE" button will move the pickup to the outermost position. The use of the "DOWN/REVIEW" button will move the pickup to the innermost position.							
	2	When the "PLAY" button is pressed, the laser will be lit, and when the "STOP" button is pressed, it will be turned off. Playback will also start and stop when these buttons are pressed.							
	a. If the "PLAY" button is pressed while in the stop mode, the laser will simply be turned on at first. b. If the laser is lit and the "PLAY" button is pressed again, playback will start from the current pickup position. If the "STOP" button is pressed, playback will stop. When pressed again, the laser will be turned off.								
	3	3 Turning the tracking servo on or off.							
		a. Each time the PAUSE button is pressed during playback, the tracking servo will be turned on or off. (Note: If the PLAY button is pressed while in the stop mode, the tracking servo will automatically be turned on.)							

#### **LCD MODE**



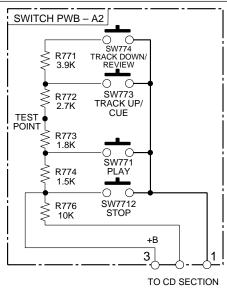


Figure 7

#### NOTES ON SCHEMATIC DIAGRAM

#### • Resistor:

To differentiate the units of resistors, the symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is an ohm resistor. The resistor designated "Fusible" is a fuse type resistor

Capacitor:

To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used. (CH), (TH), (RH), (UJ): Temperature compensation (ML): Mylar type (P.P.): Polypropylene type

 The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

REF. NO	DESCRIPTION	POSITION
SW102	RECODE/PLAYBACK	OFF—ON
SW201	FUNCTION/POWER	TAPE—TUNER—CD/ OFF—ON
SW203	X-BASS	OFF—ON
SW501	BAND	OFF—ON
SW502	TUNER DOWN	OFF—ON
SW503	TUNER UP	OFF—ON
SW504	MEMORY	OFF—ON
SW505	PRESET UP	OFF—ON

1.	Tuner	
	( ): AM mode	
	Marking except for (	): FM mode

2. CD

( ): Play mode Marking except for ( ): Stop state

3. Deck section

(): Record mode

Marking except for ( ): Playback mode

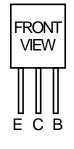
Display / Control section:

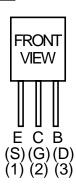
( ): Active state

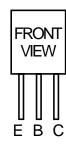
Marking except for ( ): CD Function mode at stop state

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- Parts marked with " ⚠ " (☐ ☐ ☐ ☐ ☐ ]) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW506	PRESET DOWN	OFF—ON
SW601	TAPE MAIN	OFF—ON
SW702	PICKUP IN	OFF—ON
SW761	CD LID OPEN/CLOSE	OFF—ON
SW771	PLAY/REPEAT	OFF—ON
SW772	STOP	OFF—ON
SW773	TRACK UP/CUE	OFF—ON
SW774	TRACK DOWN/REVIEW	OFF—ON







S8050D

2SA673-C 2SC1815 GR 2SC1674 K

S9012H

Figure 8 TYPES OF TRANSISTOR

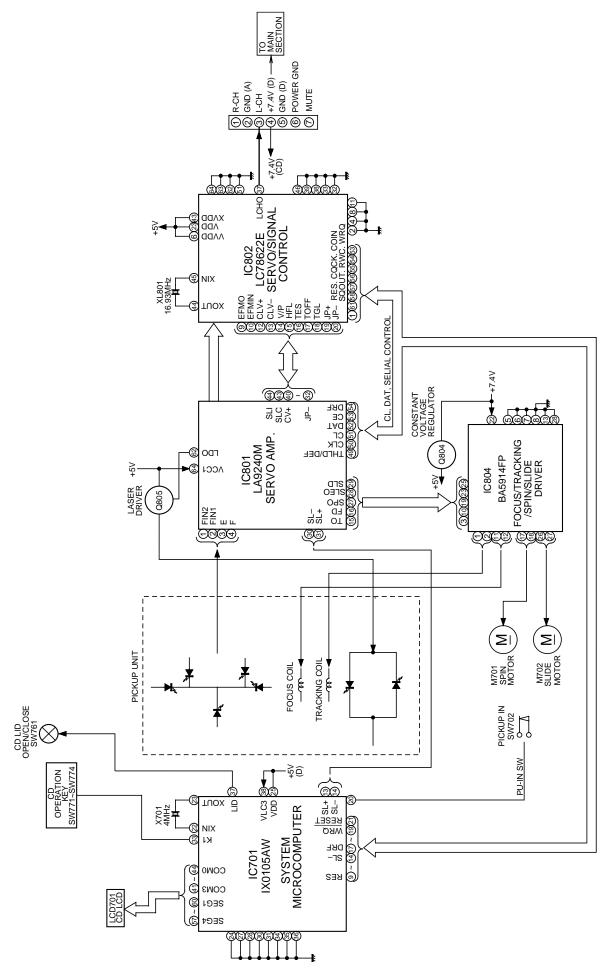


Figure 9 BLOCK DIAGRAM (1/3)

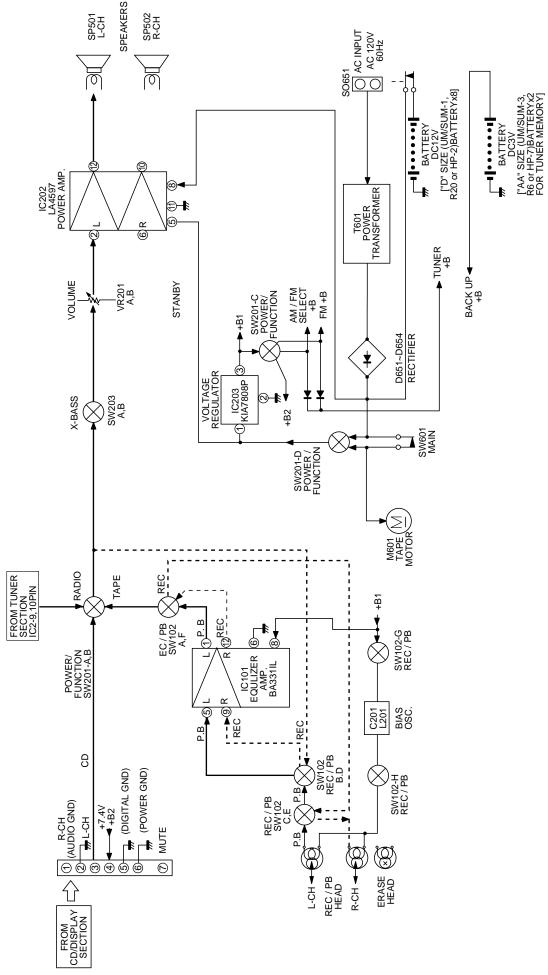


Figure 10 BLOCK DIAGRAM (2/3) - 10 -

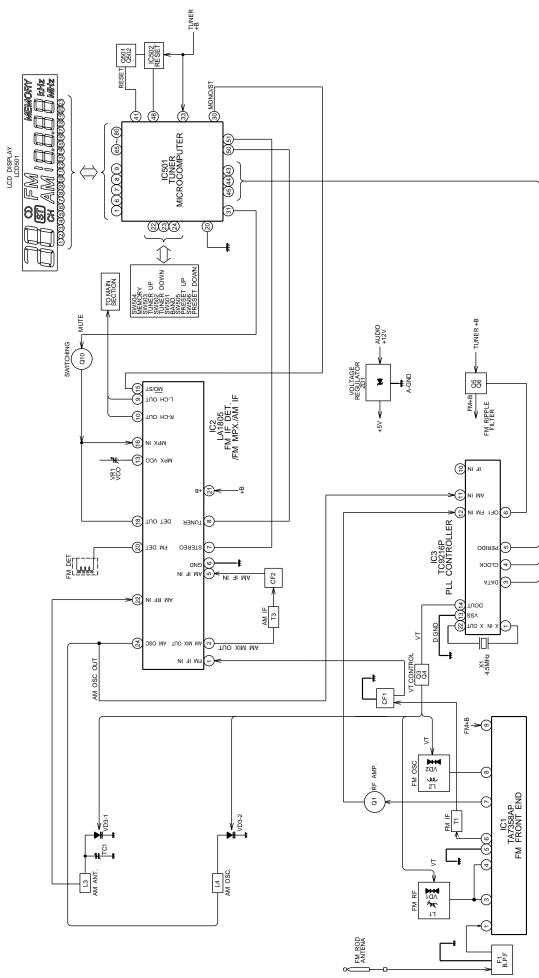
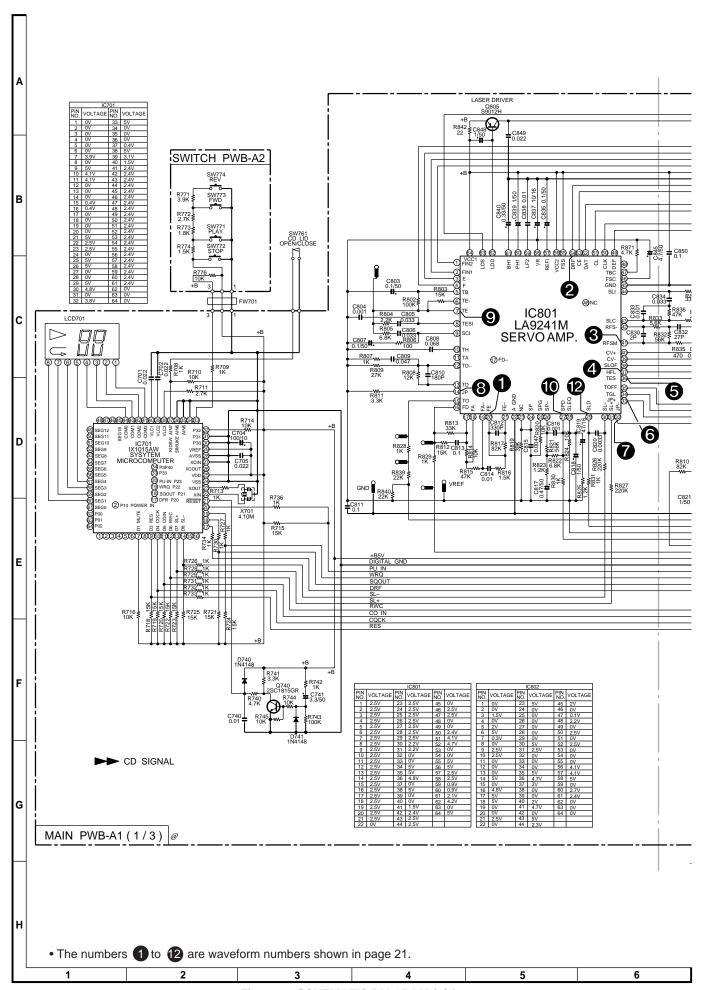
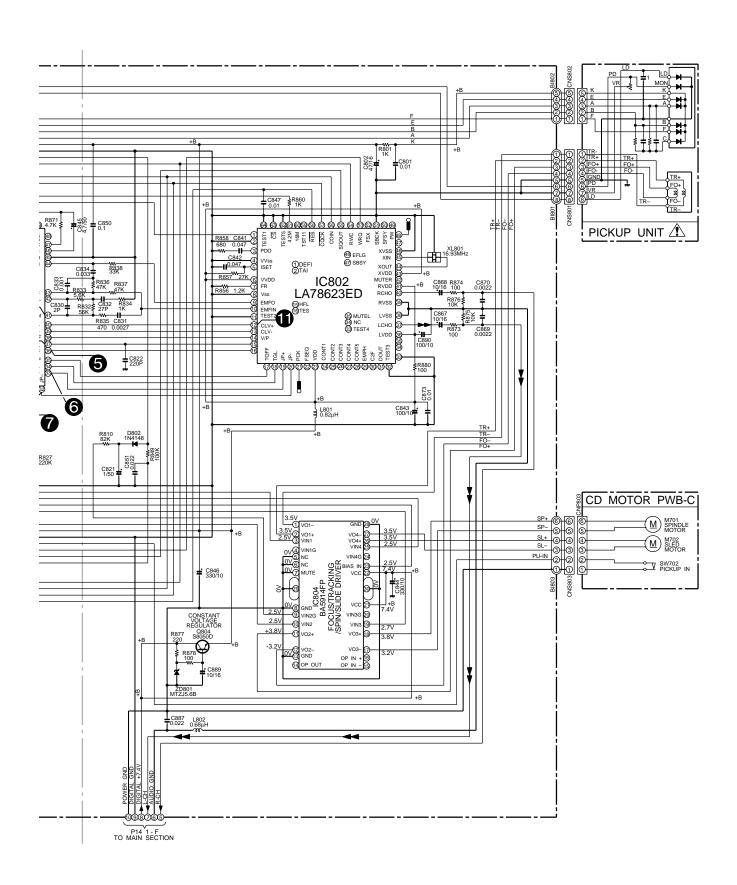


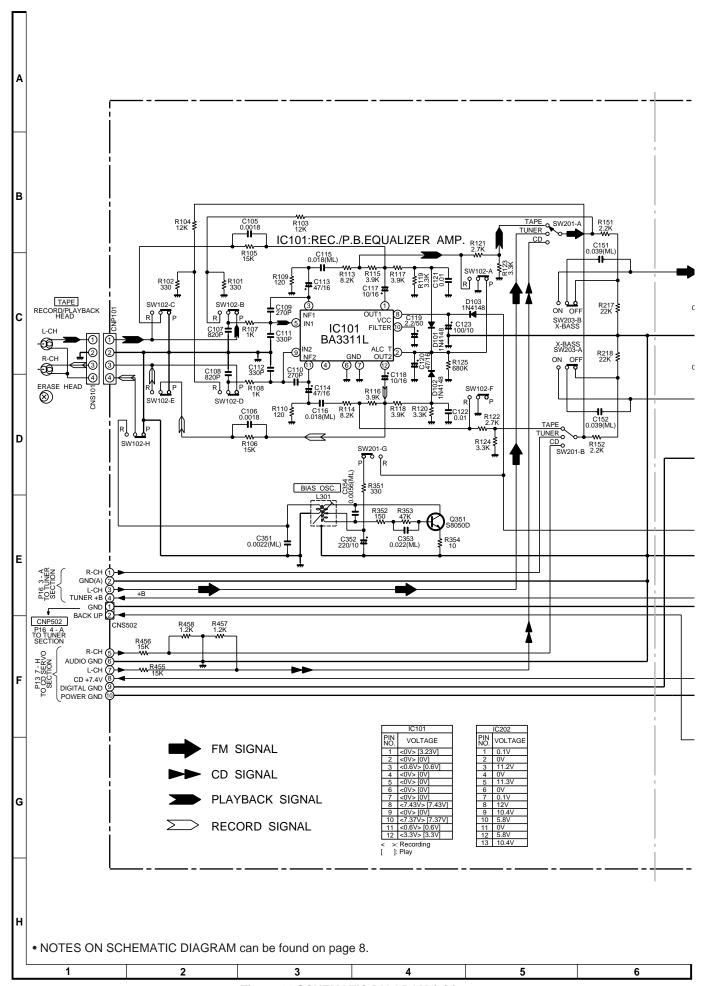
Figure 11 BLOCK DIAGRAM (3/3)

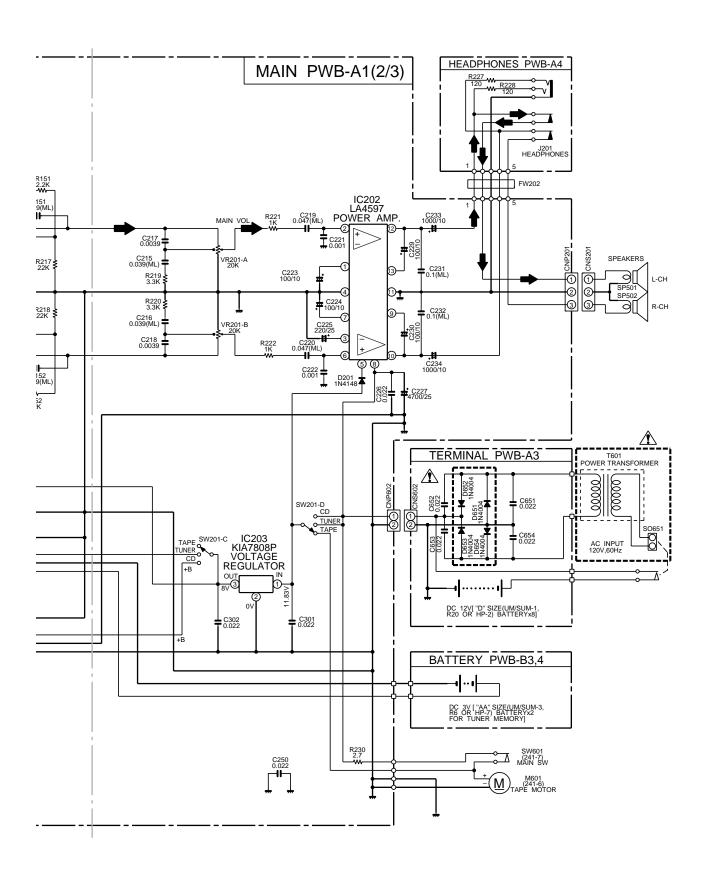


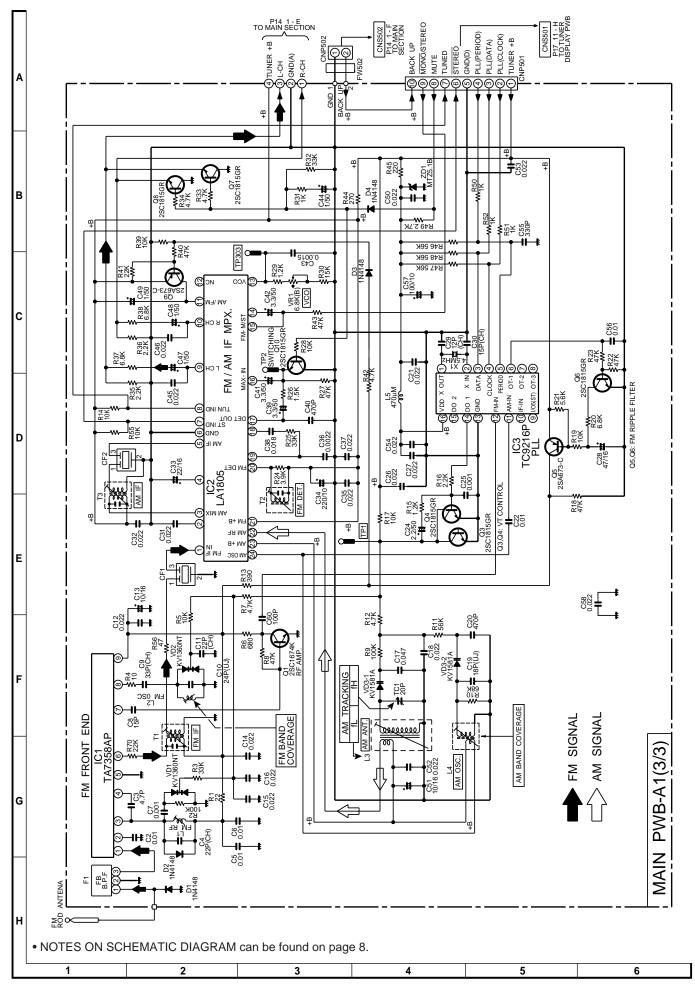


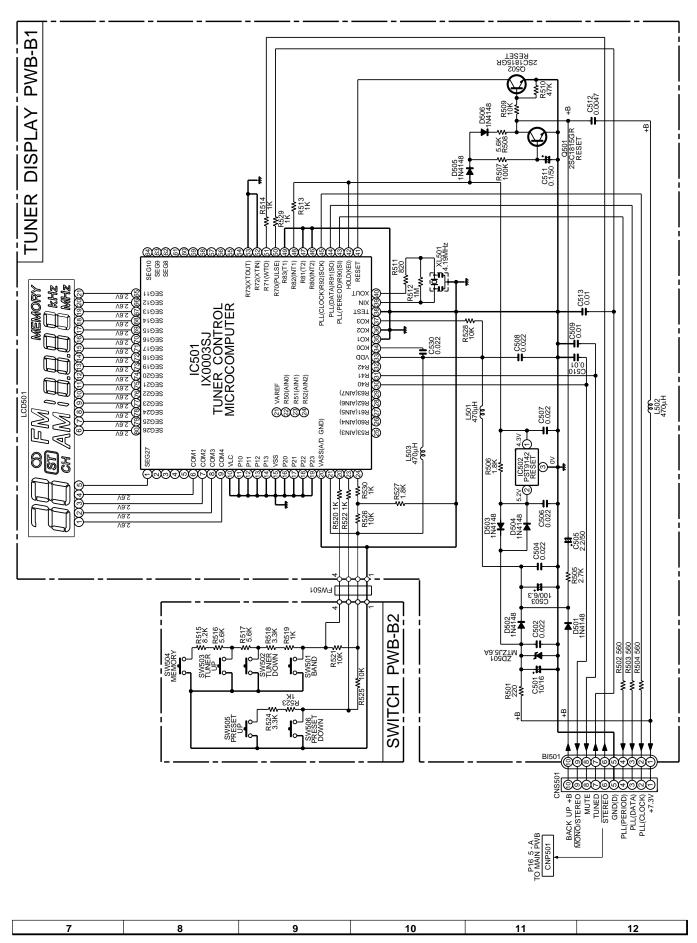
• NOTES ON SCHEMATIC DIAGRAM can be found on page 8.











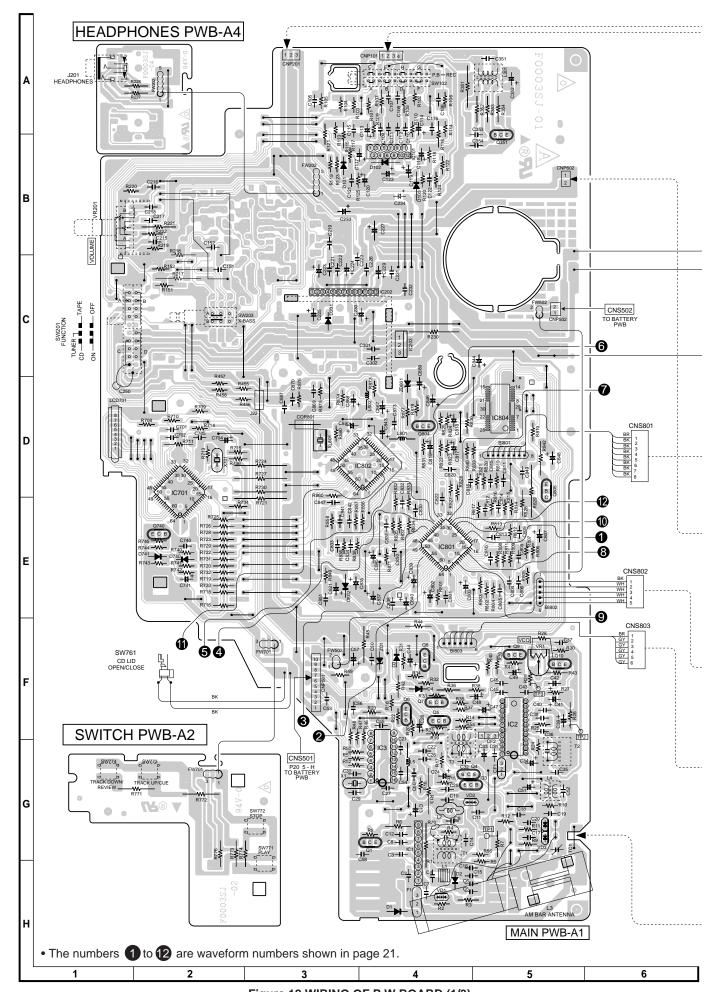
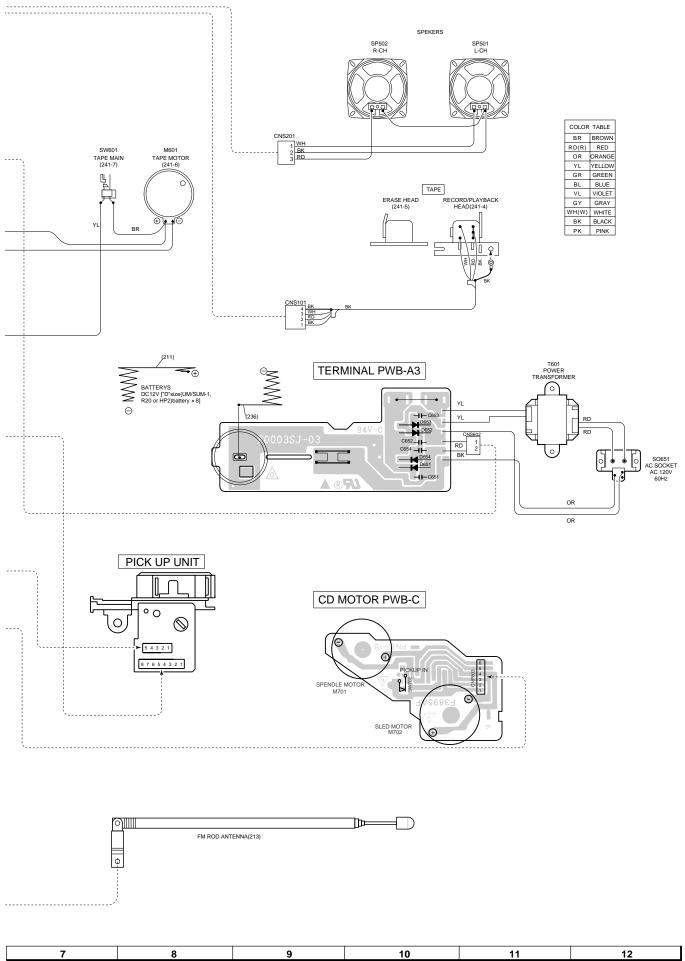
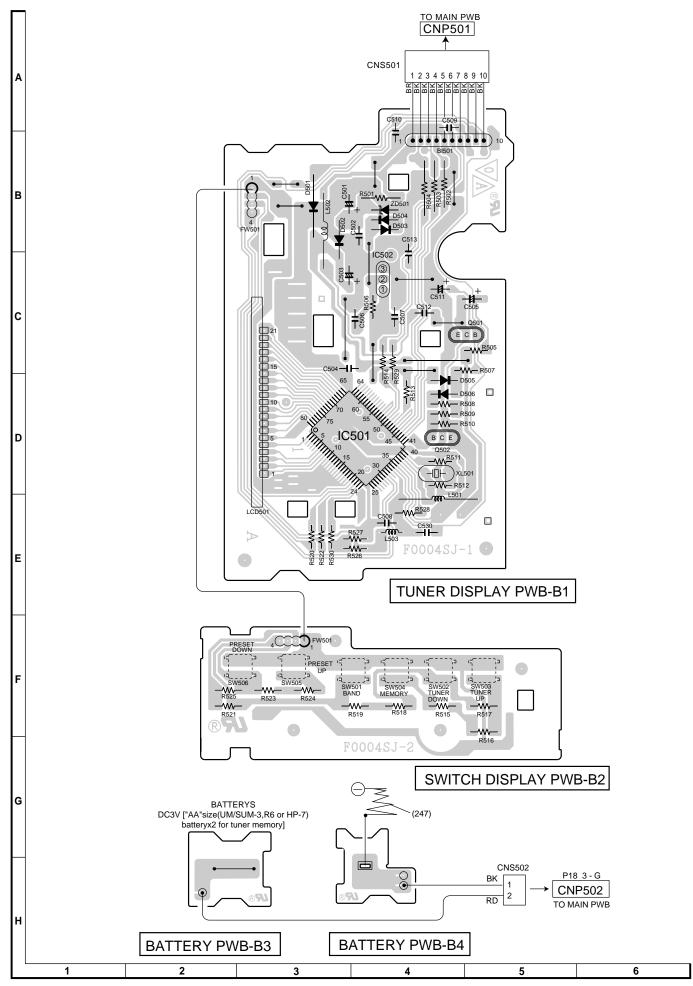
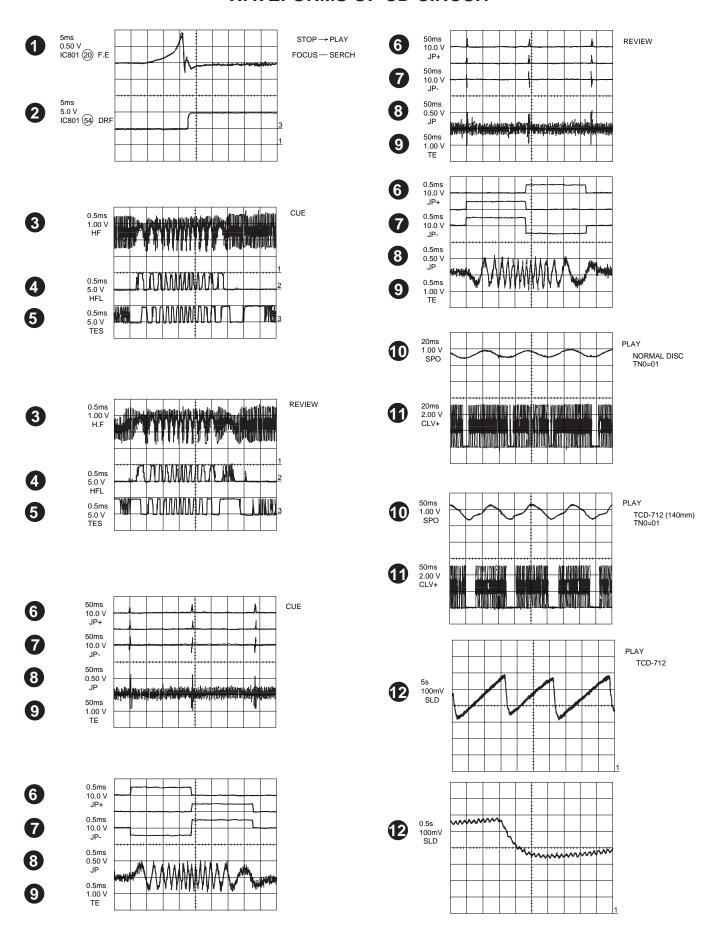


Figure 18 WIRING OF P.W.BOARD (1/3)





### **WAVEFORMS OF CD CIRCUIT**



# TROUBLESHOOTING (CD SECTION)

#### When the CD does not function

When the CD section does not operate When the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

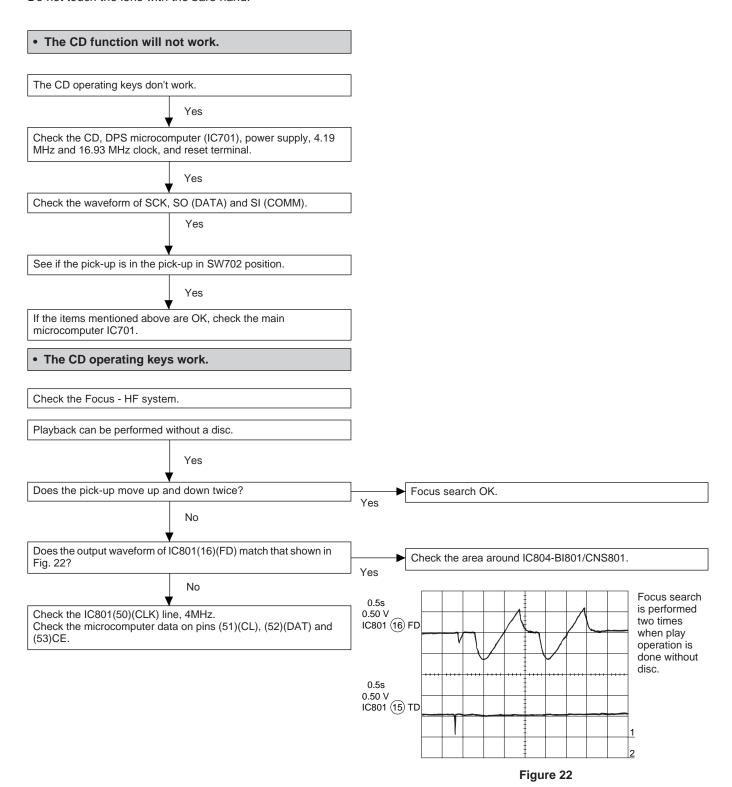
Remove the cabinet and follow the troubleshooting instructions.

"Track skipping and/or no TOC(Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

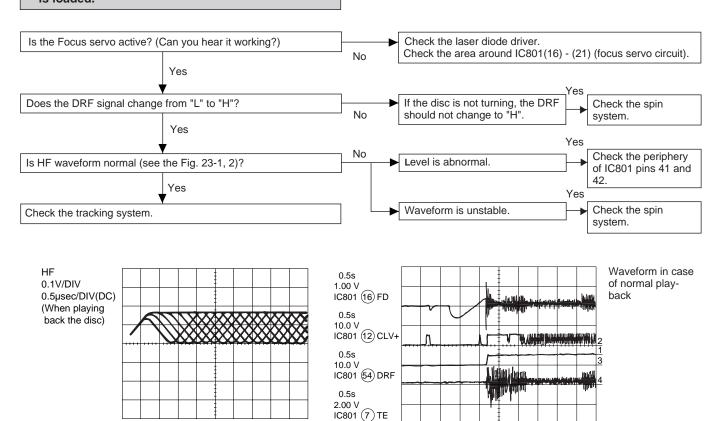
#### Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.



#### Playback can only be performed when a disc is loaded.





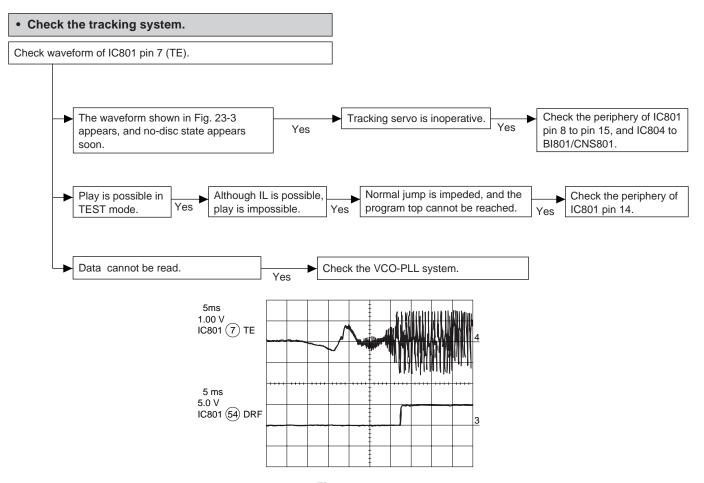
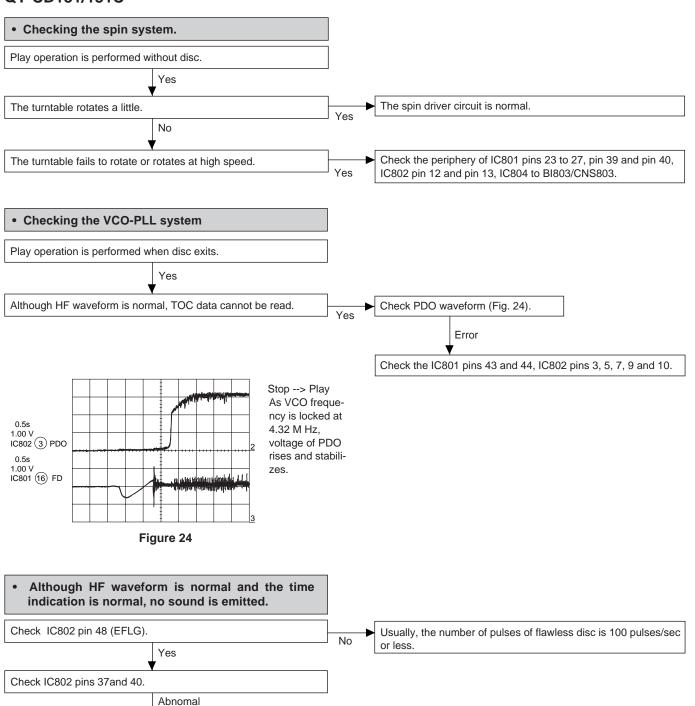


Figure 23-3

Check the periphery of IC803 (OPAMP).



# FUNCTION TABLE OF IC IC701 RH-iX0105AWZZ (IX0105AW): System Control Microcomputer

Pin No.	Terminal Name	Port Name	Input/ Output	Function
1*	P03	MTCONT2	Input/Output	Used to input or output 4 bits at a time. When the output latch is set to "1", the unit will be in the input mode. The key-on wakeup function, which can be switched on or off by the software, and a pull-up transistor, which can be turned on or off by the software, are built in.
2*-5*	P10-P13	POWER-IN, DATA (VOL), STB (VOL)	Input/Output	Used to input or output 4 bits at a time. When the output latch is set to "1", the unit will be in the input CK (VOL), mode. The key-on wakeup function, which can be switched on or off by the software and a pull-up transistor, which can be turned on or off by the software, are built in.
6*	D0	POWER-ON	Input/Output	Each terminal can be used to input or output 1 bit at a time. The output section has a latch which holds 1 bit. One of the D ports is assigned by register Y as a data point, to execute input or output. To use the port for input, set the output latch for that bit to "1". All of the output latches on port D can be set to "1" using the CLD command.
7	D1	MUTE	Input/Output	Each terminal can be used to input or output 1 bit at a time. The output section has a latch which holds 1 bit. One of the D ports is assigned by register Y as a data point, to execute input or output. To use the port for input, set the output latch for that bit to "1". All of the output latches on port D can be set to "1" using the CLD command.
8*-12	D2-D6	SYNC-OUT, RES,CQCK, COIN,REC	Input/Output	Each terminal can be used to input or output 1 bit at a time. The output section has a latch which holds 1 bit. One of the D ports is assigned by register Y as a data point, to execute input or output. To use the port for input, set the output latch for that bit to "1". All of the output latches on port D can be set to "1" using the CLD command.
13,14	D7,D8	SL+,SL-	Input/Output	Each terminal can be used to input or output 1 bit at a time. The output section has a latch which holds 1 bit. One of the D ports is assigned by register Y as a data point, to execute input or output. To use the port for input, set the output latch for that bit to "1". All of the output latches on port D can be set to "1" using the CLD command.
15*,16*	D9,D10	SRS2,SRS1	Input/Output	Each terminal can be used to input or output 1 bit at a time. The output section has a latch which holds 1 bit. One of the D ports is assigned by register Y as a data point, to execute input or output. To use the port for input, set the output latch for that bit to "1". All of the output latches on port D can be set to "1" using the CLD command.
17	P20	DRF	Input/Output	Used to receive 4 bits at a time.
18	P21	SQOUT	Input/Output	Used to receive 4 bits at a time.
19	P22	WRQ	Input/Output	Used to receive 4 bits at a time.
20	P23	PU-IN	Input/Output	Used to receive 4 bits at a time.
21	RESET		Input/Output	Reset pulse input/output terminal. When a reset is caused by the watch dog timer, an "L" level will be output. The output is an N channel open drain.
22	XIN		Input	Input/output terminals for the main clock generation circuit. Used by connecting a ceramic resonator between the XIN and XOUT terminals. There is a built-in feedback resistor between the XIN and XOUT terminals.
23	XOUT		Output	Input/output terminals for the main clock generation circuit. Used by connecting a ceramic resonator between the XIN and XOUT terminals. There is a built-in feedback resistor between the XIN and XOUT terminals.
24	VSS		_	GND input terminal.
25	VDD		_	Positive power supply terminal.
26*	XCOUT		Output	Input/output terminals for the sub clock generation circuit. Used by connecting a crystal oscillator between the XCIN and XCOUT terminals. There is a built-in feedback resistor between the XCIN and XCOUT terminals.
27	XCIN		Input	Input/output terminals for the sub clock generation circuit. Used by connecting a crystal oscillator between the XCIN and XCOUT terminals. There is a built-in feedback resistor between the XCIN and XCOUT terminals.
28	AVSS		Input	GND input terminal for the A-D converter.
29	VREF		Input	Reference voltage input terminal for the A-D converter.
30	P30	REMOCONINT2	Input	Used to receive 4 bits at a time.
31	P31	TORAY1	Input	Used to receive 4 bits at a time.
32	P32	TORAY2	Input	Used to receive 4 bits at a time.
33	P33		Input	Used to receive 4 bits at a time.
34	P40		Input	Used to receive 4 bits at a time.
35-37	AIN5-AIN7		Input	Used to receive 4 bits at a time.
38-40	VLC3-VLC1		Input	LCD power input terminals. To use the internal resistor, connect VLC3 to VDD (if a brightness control is needed, connect VLC3 to VDD through a resistor). When an external power supply is used, applyvoltages as follows: 0 <vlc1<vlc3<vlcd<vdd.< td=""></vlc1<vlc3<vlcd<vdd.<>
41-44	COM3-COM0		Output	LCD common output terminals.
45-61* (45*-56*)	SEG16-SEG0		Output	LCD segment output terminals.
62*-64*	P00-P02		Input/Output	Used to input or output 4 bits at a time. When the output latch is set to "1", the unit will be in the input mode. The key-on wakeup function, which can be switched on or off by the software, and a pull-up transistor, which can be turned on or off by the software, are built in.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

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# **SHARP PARTS GUIDE**

# MODEL QT-CD131 QT-CD131C

#### "HOW TO ORDER REPLACEMENT PARTS"

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# **Explanation of capacitors/resistors parts codes**

Capacitors	Resistors
VCC Ceramic type	VRD Carbon-film type
VCK Ceramic type	VRS Carbon-film type
VCT Semiconductor type	VRN Metal-film type
VC • • MF Cylindrical type (without lead wire)	VR • • MF Cylindrical type (without lead wire)
VC • • MN Cylindrical type (without lead wire)	VR • • MN Cylindrical type (without lead wire)
VC • • TV Square type (without lead wire)	VR • • TV Square type (without lead wire)
VC • • TQ Square type (without lead wire)	VR • • TQ Square type (without lead wire)
VC • • CY Square type (without lead wire)	VR • • CY Square type (without lead wire)
VC • • CZ Square type (without lead wire)	VR • • CZ Square type (without lead wire)
VC •••••• J The 13th character represents capacity difference.	VR •••••• J The 13th character represents error.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,	("J" ±5%, "F" ±1%, "D" ±0.5%.)
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)	

If there are no indications for the electrolytic capacitors, error is  $\pm 20\%$ .

If there are no indications for other parts, the resistors are  $\pm 5\%$  carbon-film type.

#### NOTE:

NO.	PART CODE	*	PRICE RANK		NO.	PARTS CODE	*	PRICE RANK	
INTEGRA	ATED CIRCUITS	S			VIBRATO	ORS			
IC1	VHITA7358AP-1	J	AG	FM Front End,TA7358AP	X1	RCRSB0001SJZZ	J	AN	Crystal,4.5 MHz
IC2	VHILA1805//-1	J		FM/AF IF MPX.,LA1805	X701	RCRM-0001SJZZ	J	AD	Ceramic,4.0 MHz
IC3 IC101	VHITC9216P/-1 VHIBA3311L/-1	J		PLL,TC9216P REC./P.B.Equalizer Amp.,	XL501 XL801	RCRM-0003SJZZ RCRM-0002SJZZ	J	AK AE	Ceramic,4.19 MHz Ceramic,16.93 MHz
10101	VIIID/(OOTIL/ I	Ü	7113	BA3311L			Ü	/\L	Octamio, 10.55 Will
IC202	VHILA4597//-1	J		Power Amp.,LA4597	CAPACI	TORS			
IC203 IC501	VHIKIA7808P-1 RH-IX0003SJZZ	J	AH BA	Voltage Regulator,KIA7808P Tuner Control Microcomputer,	C2	VCTYPA1CU103M		ΔF	0.01 μF,16V
10001	111111000000022	Ü	DA	IX0003SJ	C3	VCCCPA1HH4R7C		AA	4.7 pF (CH),50V
IC502	VHIPST9142/-1	J			C4	VCCCPA1HH220J		AA	. , , ,
IC701	RH-IX0105AWZZ	J	BA	System Microcomputer, IX0105AW	C5,6 C7	VCTYPA1CU103M VCKYPA1HB102K		AE AA	0.01 μF,16V 0.001 μF,50V
IC801	VHILA9241M/-1	J	AS	Servo Amp.,LA9241M	C8	VCCCPA1HH150J		AA	
IC802	VHILC78623D-1	J	AY	Servo/Signal Control,LC78623D	C9		J	AA	1 \ //
IC804	VHIBA5914FP-1	J	AIN	Focus/Tracking/Spin/Slide Driver,BA5914FP	C10 C11	VCCUPA1HJ240J VCCCPA1HH220J	J	AB AA	24 pF (UJ),50V 22 pF (CH),50V
				211761,271661111	C12	VCKYPA1HF223Z		AB	0.022 μF,50V
TRANSIS	STORS				C13	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic
Q1	VS2SC1674K/-1	J	AD	Silicon,NPN,2SC1674K	C14 C15,16	VCKYPA1HF223Z VCTYPA1CU223M		AB AB	0.022 μF,50V 0.022 μF,16V
Q3,4	VS2SC1815GR-1	Ĵ	AB	Silicon,NPN,2SC1815 GR	C17	VCKYPA1HF473Z			0.047 μF,50V
Q5	VS2SA673-C/-1	J	AC	Silicon,PNP,2SA673-C	C18	VCKYPA1HF223Z		AB	0.022 μF,50V
Q6~8 Q9	VS2SC1815GR-1 VS2SA673-C/-1	J	AB AC	Silicon,NPN,2SC1815 GR Silicon,PNP,2SA673-C	C19 C20	VCCUPA1HJ180J VCKYPA1HB471K	J .I	AA AA	18 pF (UJ),50V 470 pF,50V
Q10	VS2SC1815GR-1	Ĵ	AB	Silicon,NPN,2SC1815 GR	C21	VCKYPA1HF223Z		AB	0.022 μF,50V
Q351	VSS8050D///-1	J		Silicon,NPN,S8050 D	C22	VCTYPA1CU103M			0.01 μF,16V
Q501,502 Q740	VS2SC1815GR-1 VS2SC1815GR-1	J	AB AB	Silicon,NPN,2SC1815 GR Silicon,NPN,2SC1815 GR	C24 C25	RC-GZA225AF1H VCKYPA1HB102K	J	AB AA	
Q804	VSS8050D///-1	Ĵ	AC	Silicon,NPN,S8050 D	C26,27	VCKYPA1HF223Z		AB	0.022 μF,50V
Q805	VSS9012H///-1	J	AC	Silicon,PNP,S9012 H	C28	RC-GZA476AF1C	J	AB	47 μF,16V,Electrolytic
DIODES					C29 C30	VCCCPA1HH120J VCCCPA1HH150J	J	AA	12 pF (CH),50V 15 pF (CH),50V
2.0220					C31,32	VCKYPA1HF223Z		AB	0.022 μF,50V
D1~4	VHD1N4148//-1	J	AA	Silicon,1N4148	C33	RC-GZA226AF1C	J	AB	
D101~103 D201	VHD1N4148//-1 VHD1N4148//-1	J		Silicon,1N4148 Silicon,1N4148	C34 C35	RC-GZA227AF1A VCKYPA1HF223Z	J	AB AB	220 μF,10V,Electrolytic 0.022 μF,50V
D501~506	VHD1N4148//-1	Ĵ	AA	Silicon,1N4148	C36	VCKYPA1HB222K		AA	
△ D651~654	VHD1N4004//-1	J	AB	Silicon,1N4004	C37	VCKYPA1HF223Z		AB	
D740,741 D802	VHD1N4148//-1 VHD1N4148//-1	J	AA AA	Silicon,1N4148 Silicon,1N4148	C38 C39	VCTYPA1CU183M RC-GZA335AF1H	J	AC AB	0.018 μF,16V 3.3 μF,50V,Electrolytic
VD1,2	VHCKV1360NT-1	Ĵ	AF	Variable Capacitance,KV1360NT	C40	VCKYPA1HB471K		AA	
VD3	VHCKV1581A2-3	J	AE	Variable Capacitance,KV1581A	C41,42	RC-GZA335AF1H	J	AB	
ZD1 ZD501	VHEMTZJ5R1B-1 VHEMTZJ5R6A-1	J		Zener,5.1V,MTZJ5.1B Zener,5.6V,MTZJ5.6A	C43 C44	VCQSMV1HS152J RC-GZA105AF1H	J	AB AB	0.0015 μF,50V,Styrol 1 μF,50V,Electrolytic
ZD801	VHEMTZJ5R6B-1			Zener,5.6V,MTZJ5.6B	C45,46	VCTYPA1CU223M		AB	0.022 μF,16V
FILTERS	<b>:</b>				C47~49 C50	RC-GZA105AF1H VCKYPA1HF223Z	J		1 μF,50V,Electrolytic 0.022 μF,50V
I ILI LIKO	•				C51	RC-GZA106AF1C			10 μF,16V,Electrolytic
CF1	RFILF0001SJZZ	J		FM IF	C52~54	VCKYPA1HF223Z		AB	0.022 μF,50V
CF2 F1	RFILA0002SJZZ RFILR0001SJZZ			AM IF FM Band Pass Filter	C55 C56	VCKYPA1HB331K VCKYPA1HF103Z		AA ^B	330 pF,50V 0.01 μF,16V
		Ü	710	TW Band Fass Filter	C57	RC-GZA107AF1A	J		100 μF,10V,Electrolytic
TRANSF	ORMERS				C58	VCKYPA1HF223Z			0.022 μF,50V
T1	RCILI0001SJZZ	J	ΔD	FM IF	C60 C105,106	VCKYPA1HB101K VCKYPA1HB182K		AA AB	100 pF,50V 0.0018 μF,50V
T2	RCILI0001332Z	J		FM Detection	C103,100 C107,108	VCKYPA1HB821K			820 pF,50V
T3	RCILI0003SJZZ	J	AD	AM IF	C109,110	VCKYPA1HB271K		AA	
<u> </u>	RTRNP0001SJZZ	J	AP	Power	C111,112 C113,114	VCKYPA1HB331K RC-GZA476AF1C	J		330 pF,50V 47 μF,16V,Electrolytic
COILS					C115,116	VCQYKA1HM183K			0.018 μF,50V,Mylar
	DOI! D00040177		۸.	EM DE	C117,118	RC-GZA106AF1C	J		10 μF,16V,Electrolytic
L1 L2	RCILR0004SJZZ RCILB0011SJZZ	J		FM RF OSC.FM	C119 C120	RC-GZA225AF1H RC-GZA476AF1C	J		2.2 μF,50V,Electrolytic 47 μF,16V,Electrolytic
L3	RCILA0008SJZZ	Ĵ		AM Bar Antenna	C121,122	VCKYPA1HF103Z			0.01 μF,16V
L4	RCILB0012SJZZ			OSC,AM	C123	RC-GZA107AF1A	J		100 μF,10V,Electrolytic
L5 L301	VP-CH471K0000 RCILB0003SJZZ	J		470 μH,Choke OSC,Bias	C151,152 C215,216	VCQYKA1HM393K VCQYKA1HM393K			0.039 μF,50V,Mylar 0.039 μF,50V,Mylar
L501~503	VP-CH471K0000	J		470 μH,Choke	C217,218	VCKYPA1HB392K			0.0039 μF,50V
L801	VP-DHR82K0000	J		0.82 μH,Choke	C219,220	VCQYKA1HM473K			0.047 μF,50V,Mylar
L802	VP-DHR68K0000	J	AC	0.68 μF	C221,222 C223,224	VCKYPA1HB102K RC-GZA107AF1A	J	AA AB	0.001 μF,50V 100 μF,10V,Electrolytic
VARIAB	LE RESISTORS	5			C225	RC-GZA227AF1E	J		220 μF,25V,Electrolytic
VD4	DVD 14000101==		4.0	C 0 link (P) 0	C226	VCKYPA1HF223Z	J		0.022 μF,50V
VR1 VR201	RVR-M0001SJZZ RVR-B0001SJZZ	J .I		6.8 kohms (B),Semi-VR [VCO] 20 kohms (B),Semi-VR [Volume]	C227 C229,230	RC-GZW478AF1E RC-GZA107AF1A	J		4700 μF,25V,Electrolytic 100 μF,10V,Electrolytic
			7L	25 Normino (D), Ocimi-VIX [Volume]	C229,230 C231,232	VCQYKA1HM104K			0.1 μF,50V,Mylar
VARIABI	LE CAPACITOR	3			C233,234	RC-GZV108AF1A	J	AD	1000 μF,10V,Electrolytic
TC1	RTO-H1001SJZZ	J	ΔН	Trimmer	C250 C301,302	VCKYPA1HF223Z VCKYPA1HF223Z			0.022 μF,50V 0.022 μF,50V
.01	1110010022	J	, vi 1		C351,302	VCQYKA1HM222K			0.0022 μF,50V,Mylar

NO.	PART CODE		PRICE RANK		NO.	PARTS CODE		PRICE RANK	
C352	RC-GZA227AF1A	J	AB	220 μF,10V,Electrolytic	R13	VRD-ST2EE391J	J	AA	390 ohms,1/4W
C353	VCQYKA1HM223K		AB	0.022 μF,50V,Mylar	R14	VRD-ST2CD103J	J	AA	10 kohm,1/6W
C354 C501	VCQYKA1HM562K	J	AA AB	0.0056 μF,50V,Mylar 10 μF,16V,Electrolytic	R15 R16	VRD-ST2CD122J	J	AA AA	1.2 kohms,1/6W 2.2 kohms,1/6W
C502	RC-GZA106AF1C VCKYPA1HF223Z	J	AB	0.022 μF,50V	R17	VRD-ST2CD222J VRD-ST2CD103J	J	AA	10 kohm,1/6W
C503	RC-GZA107AF1A	Ĵ	AB	100 μF,10V,Electrolytic	R18	VRD-ST2CD473J	Ĵ	AA	47 kohms,1/6W
C504	VCKYPA1HF223Z	J	AB	0.022 μF,50V	R19	VRD-ST2CD103J	J	AA	10 kohm,1/6W
C505	RC-GZA225AF1H	J	AB	2.2 μF,50V,Electrolytic	R20	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
C506~508 C509,510	VCKYPA1HF223Z VCKYPA1HF103Z	J	AB AB	0.022 μF,50V 0.01 μF,16V	R21 R22,23	VRD-ST2CD562J VRD-ST2CD473J	J J	AA AA	5.6 kohms,1/6W 47 kohms,1/6W
C511	RC-GZA104AF1H	J	AB	0.1 μF,50V,Electrolytic	R24	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
C512	VCKYPA1CU473M			0.047 μF,16V	R25	VRD-ST2CD333J	J	AA	33 kohms,1/6W
C513	VCKYPA1HF103Z	J	AB	0.01 μF,16V	R26	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
C530	VCKYPA1HF223Z	J	AB	0.022 μF,50V	R27	VRD-ST2CD473J	J	AA	47 kohms,1/6W
C651~654 C701,702	VCKYPA1HF223Z VCKYPA1HF223Z	J	AB AB	0.022 μF,50V 0.022 μF,50V	R28 R29	VRD-ST2CD103J VRD-ST2CD122J	J	AA AA	10 kohm,1/6W 1.2 kohms,1/6W
C704	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic	R30	VRD-ST2CD153J	Ĵ	AA	15 kohms,1/6W
C705	VCKYPA1HF223Z	J	AB	0.022 μF,50V	R31	VRD-ST2CD102J	J	AA	1 kohm,1/6W
C740	VCKYPA1HF103Z	J	AB	0.01 μF,16V	R32	VRD-ST2CD333J	J	AA	33 kohms,1/6W
C741	RC-GZA335AF1H	J	AB	3.3 μF,50V,Electrolytic	R33,34	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
C801 C802	VCKYPA1HF103Z RC-GZA476AF1C	J	AB AB	0.01 μF,16V 47 μF,16V,Electrolytic	R35,36 R37,38	VRD-ST2CD222J VRD-ST2CD682J	J J	AA AA	2.2 kohms,1/6W 6.8 kohms,1/6W
C803	RC-GZA104AF1H	Ĵ	AB	0.1 μF,50V,Electrolytic	R39	VRD-ST2CD103J	Ĵ	AA	10 kohm,1/6W
C804	VCKYPA1HB102K	J	AA	0.001 μF,50V	R40	VRD-ST2CD473J	J	AA	47 kohms,1/6W
C805,806	VCTYPA1CU333M	J	AB	0.033 μF,16V	R41	VRD-ST2CD223J	J	AA	22 kohms,1/6W
C807	RC-GZA104AF1H	J	AB	0.1 μF,50V,Electrolytic	R42	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
C808 C809	VCTYPA1CU683M VCTYPA1CU473M	J	AB AB	0.068 μF,16V 0.047 μF,16V	R43 R44	VRD-ST2CD473J VRD-ST2EE271J	J J	AA AA	47 kohms,1/6W 270 ohms,1/4W
C810	VCKYPA1HB181K	J	AA	180 pF,50V	R45	VRD-ST2EE221J	J	AA	220 ohms,1/4W
C811	VCTYPA1CU104M	Ĵ	AB	0.1 μF,16V	R46~48	VRD-ST2CD563J	Ĵ	AA	56 kohms,1/6W
C812	VCKYPA1HB331K	J	AA	330 pF,50V	R49	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
C813	VCTYPA1CU104M	J	AB	0.1 μF,16V	R50~52	VRD-ST2CD102J	J	AA	1 kohm,1/6W
C814 C815	VCTYPA1CU103M VCKYPA1HB472K	J	AE AB	0.01 μF,16V 0.0047 μF,50V	R55 R56	VRD-ST2CD103J VRD-ST2CD470J	J	AA AA	10 kohm,1/6W 47 ohms,1/6W
C816	VCKYPA1HB102K	J	AA	0.0047 μΓ,50V 0.001 μF,50V	R70	VRD-ST2CD27703	J	AA	22 kohms,1/6W
C817	RC-GZA474AF1H	J	AA	0.47 μF,50V,Electrolytic	R101,102	VRD-ST2CD331J	J	AA	330 ohms,1/6W
C818	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic	R103,104	VRD-ST2CD123J	J	AA	12 kohms,1/6W
C819	RC-GZA476AF1C	J	AB	47 μF,16V,Electrolytic	R105,106	VRD-ST2CD153J	J	AA	15 kohms,1/6W
C820 C821	VCKYPA1HB332K RC-GZA105AF1H	J	AA AB	0.0033 μF,50V 1 μF,50V,Electrolytic	R107,108 R109,110	VRD-ST2CD102J VRD-ST2CD121J	J J	AA AA	1 kohm,1/6W 120 ohms,1/6W
C822		J	AA	220 pF,50V	R113,114	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
C830	VCCCPA1HH2R0C	J	AA	2 pF (CH),50V	R115~118	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
C831	VCKYPA1HB272K		AA	0.0027 μF,50V	R119,120	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
C832 C833	VCCCPA1HH270J VCKYPA1HB102K	J	AA AA	27 pF (CH),50V 0.001 μF,50V	R121,122 R123,124	VRD-ST2CD272J VRD-ST2CD332J	J J	AA AA	2.7 kohms,1/6W 3.3 kohms,1/6W
C834	VCTYPA1CU333M	J	AB	0.033 μF,16V	R125,124	VRD-ST2CD3323 VRD-ST2CD684J	J	AA	680 kohms,1/6W
C835	RC-GZA104AF1H	Ĵ	AB	0.1 μF,50V,Electrolytic	R151,152	VRD-ST2CD222J	Ĵ	AA	2.2 kohms,1/6W
C837	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic	R217,218	VRD-ST2CD223J	J	AA	22 kohms,1/6W
C838	VCTYPA1CU103M	J	AE	0.01 μF,16V	R219,220	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
C839 C840	RC-GZA105AF1H RC-GZA334AF1H	J	AB AA	1 μF,50V,Electrolytic 0.33 μF,50V,Electrolytic	R221,222 R227,228	VRD-ST2CD102J VRD-ST2EE121J	J	AA AA	1 kohm,1/6W 120 ohms,1/4W
C841,842	VCTYPA1CU473M	J	AB	0.047 μF,16V	R230	VRD-ST2EE2R7J	J	AA	2.7 ohms,1/4W
C843	RC-GZA107AF1A	Ĵ	AB	100 μF,10V,Electrolytic	R351	VRD-ST2EE331J	Ĵ	AA	330 ohms,1/4W
C844	RC-GZA337AF1A	J	AB	330 μF,10V,Electrolytic	R352	VRD-ST2EE151J	J	AA	150 ohms,1/4W
C845	RC-GZA475AF1H	J	AB	4.7 μF,50V,Electrolytic	R353	VRD-ST2EE473J	J	AA	47 kohms,1/4W
C846 C847	RC-GZA337AF1A VCTYPA1CU103M	J	AB AE	330 μF,10V,Electrolytic 0.01 μF,16V	R354 R455,456	VRD-ST2EE100J VRD-ST2CD153J	J	AA AA	10 ohm,1/4W 15 kohms,1/6W
C848	RC-GZA105AF1H	J	AB	1 μF,50V,Electrolytic	R457,458	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
C849	VCKYPA1HF223Z	J	AB	0.022 μF,50V	R501	VRD-ST2EE221J	J	AA	220 ohms,1/4W
C850	VCTYPA1CU104M	J	AB	0.1 μF,16V	R502~504	VRD-ST2CD561J	J	AA	560 ohms,1/6W
C851	VCKYPA1HF223Z	J	AB	0.022 μF,50V	R505	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
C867,868 C869,870	RC-GZA106AF1C VCKYPA1HB222K	J	AB AA	10 μF,16V,Electrolytic 0.0022 μF,50V	R506 R507	VRD-ST2CD182J VRD-ST2CD104J	J J	AA AA	1.8 kohms,1/6W 100 kohm,1/6W
C873	VCKYPA1HF103Z	J	AB	0.0022 μ1 ,50 V 0.01 μF,16V	R508	VRD-ST2CD1043	J	AA	5.6 kohms,1/6W
C887	VCKYPA1HF223Z	J	AB	0.022 μF,50V	R509	VRD-ST2CD103J	J	AA	10 kohm,1/6W
C889	RC-GZA106AF1C	J	AB	10 μF,16V,Electrolytic	R510	VRD-ST2CD473J	J	AA	47 kohms,1/6W
C890	RC-GZA107AF1A	J	AB	100 μF,10V,Electrolytic	R511	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RESISTO	RS				R512 R513,514	VRD-ST2CD105J VRD-ST2CD102J	J	AA AA	1 Mohm,1/6W 1 kohm,1/6W
11201010	110				R515	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R1	VRD-ST2EE220J	J	AA	22 ohms,1/4W	R516,517	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R2	VRD-ST2CD104J	J	AA	100 kohm,1/6W	R518	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R3	VRD-ST2CD333J	J	AA	33 kohms,1/6W	R519,520	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R4 R5	VRD-ST2CD100J VRD-ST2CD103J	J	AA AA	10 ohm,1/6W 10 kohm,1/6W	R521 R522,523	VRD-ST2CD103J VRD-ST2CD102J	J	AA AA	10 kohm,1/6W 1 kohm,1/6W
R6	VRD-ST2EE681J	J	AA	680 ohms,1/4W	R522,523	VRD-ST2CD1023 VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R7	VRD-ST2CD472J	Ĵ	AA	4.7 kohms,1/6W	R525,526	VRD-ST2CD103J	Ĵ	AA	10 kohm,1/6W
R8	VRD-ST2CD473J	J	AA	47 kohms,1/6W	R527	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R9	VRD-ST2CD104J	J	AA	100 kohm,1/6W	R528	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R10 R11	VRD-ST2CD683J VRD-ST2CD563J	J	AA AA	68 kohms,1/6W 56 kohms,1/6W	R529,530 R708,709	VRD-ST2CD102J VRD-ST2CD102J	J	AA AA	1 kohm,1/6W 1 kohm,1/6W
R12	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W	R710	VRD-ST2CD1023	J	AA	10 kohm,1/6W

NO.	PART CODE		PRICE RANK		NO.	PARTS CODE		PRICE RANK	
R711	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W	CNP803	QCNCM932FAFZZ	J	AC	Plug,6Pin
R713	VRD-ST2CD102J	J	AA	1 kohm,1/6W	CNS101			_	Connector Ass'y,4Pin
R714 R715	VRD-ST2CD103J VRD-ST2CD153J	J J	AA AA	10 kohm,1/6W 15 kohms,1/6W	CNS201	QCNWN0001SJZZ	J	AD	(Not Replacement Item) Connector Ass'y,3Pin
R716	VRD-ST2CD103J	Ĵ	AA	10 kohm,1/6W	CNS502		Ĵ	AK	Connector Ass'y,2Pin
R718~723	VRD-ST2CD153J	J	AA	15 kohms,1/6W	CNS602	QCNWN0007SJZZ		AC	Connector Ass'y,2Pin
R724 R725	VRD-ST2EE153J VRD-ST2CD153J	J J	AA AA	15 kohms,1/4W 15 kohms,1/6W	COR801 FW202	RCORF0001SJZZ QCNWN0012SJZZ	J	AC AF	Core Flat,Wire,5Pin
R726	VRD-ST2CD1033	J	AA	1 kohm,1/6W	FW501	QCNWN0012SJZZ		AK	Flat,Wire,4Pin
R727	VRD-ST2EE102J	J	AA	1 kohm,1/4W	FW502	QCNWN0101SJZZ	J		Flat,Wire,2Pin
R728,729	VRD-ST2CD102J	J	AA	1 kohm,1/6W	FW701	QCNWN0008SJZZ	J	AC	Flat Wire,3Pin
R730 R731~734	VRD-ST2EE102J VRD-ST2CD102J	J J	AA AA	1 kohm,1/4W 1 kohm,1/6W	J22 J201	RCORF0001SJZZ QJAKM0007AWZZ	J J	AC AF	Core Jack, Headphones
R736	VRD-ST2CD1023	J	AA	1 kohm,1/6W	LCD501	RV-LX0002SJZZ	J	AV	LCD
R740	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W	LCD701	RV-LX0001SJZZ	J	АН	LCD
R741	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W	M601	9GD192112343W	J	AX	Motor with Pulley [Tape]
R742 R743	VRD-ST2CD102J VRD-ST2CD104J	J J	AA AA	1 kohm,1/6W 100 kohm,1/6W	M701 M702	RMOTV0408AFM3 RMOTV0409AFM1	J J	AN AN	Motor with Chassis [Spindle] Motor with Gear [Sled]
R744,745	VRD-ST2CD103J	Ĵ	AA	10 kohm,1/6W	∆ SO651	QSOCA0001SJZZ	Ĵ	AE	AC Socket
R771	VRD-ST2EE392J	J	AA	3.9 kohms,1/4W	SP501,502	VSP0010PBT98S	J	AL	Speaker, Woofer
R772	VRD-ST2EE272J	J	AA	2.7 kohms,1/4W 1.8 kohms,1/4W	SW102	QSW-S0001SJZZ	J	AD	Switch, Slide Type
R773 R774	VRD-ST2EE182J VRD-ST2EE152J	J J	AA AA	1.5 kohms,1/4W	SW201	QSW-S0007SJZZ	J	AL	[Record/Playback] Switch,Slide Type
R776	VRD-ST2EE103J	Ĵ	AA	10 kohm,1/4W	011201	Q011 00001 002E	Ü	/	[Function/Power]
R801	VRD-ST2CD102J	J	AA	1 kohm,1/6W	SW203	QSW-P0001SJZZ	J	AD	Switch,Push Type [X-BASS]
R802	VRD-ST2CD104J	J	AA	100 kohm,1/6W	SW501	QSW-K0001SJZZ	J	AC	Switch,Key Type [Band]
R803 R804	VRD-ST2CD153J VRD-ST2CD222J	J J	AA AA	15 kohms,1/6W 2.2 kohms,1/6W	SW502 SW503	QSW-K0001SJZZ QSW-K0001SJZZ	J J	AC AC	Switch, Key Type [Tuner Down] Switch, Key Type [Tuner Up]
R805	VRD-ST2CD2223	J	AA	6.8 kohms,1/6W	SW504	QSW-K0001SJZZ	J	AC	Switch, Key Type [Memory]
R806	VRD-ST2CD101J	Ĵ	AA	100 ohm,1/6W	SW505	QSW-K0001SJZZ	J	AC	Switch,Key Type [Preset Up]
R807	VRD-ST2CD102J	J	AA	1 kohm,1/6W	SW506	QSW-K0001SJZZ	J	AC	Switch,Key Type [Preset Down]
R808	VRD-ST2CD123J	J	AA AA	12 kohms,1/6W	SW601	9GD6401011499	J J	AE AE	Switch, Leaf Type [Tape Main]
R809 R810	VRD-ST2CD273J VRD-ST2CD823J	J J	AA	27 kohms,1/6W 82 kohms,1/6W	SW702 SW761	QSW-F9001AWZZ QSW-F0001SJZZ	J	AD	Switch,Push Type [Pickup In] Switch,Leaf/Skeleton Type
R811	VRD-ST2CD332J	Ĵ	AA	3.3 kohms,1/6W	011101	Q011 1 000 1 002 E	Ü	,,,,	[CD Lid Open/Close]
R812	VRD-ST2CD153J	J	AA	15 kohms,1/6W	SW771	QSW-K0001SJZZ	J	AC	Switch,Key Type [Play/Repeat]
R813	VRD-ST2CD333J	J	AA AA	33 kohms,1/6W	SW772	QSW-K0001SJZZ	J J	AC	Switch, Key Type [Stop]
R814 R815	VRD-ST2CD103J VRD-ST2CD473J	J J	AA	10 kohm,1/6W 47 kohms,1/6W	SW773 SW774	QSW-K0001SJZZ QSW-K0001SJZZ	J	AC AC	Switch, Key Type [Track Up/Cue] Switch, Key Type
R816	VRD-ST2CD152J	Ĵ	AA	1.5 kohms,1/6W	0,,,,,	Q011 11000 10022	Ŭ	710	[Track Down/Review]
R817	VRD-ST2CD823J	J	AA	82 kohms,1/6W	CD MECH	IANICM DADTO			
R819	VRD-ST2CD393J VRD-ST2CD103J	J J	AA AA	39 kohms,1/6W 10 kohm,1/6W	CD MECH	IANISM PARTS	•		
R820 R821	VRD-ST2CD1033	J	AA	56 kohms,1/6W	301	NGERH0586AFZZ	J	AC	Gear,Middle
R822	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W	302		J	AC	Gear,Drive
R823	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W	303	MLEVP1054AFZZ	J	AC	Rail,Guide
R824 R825	VRD-ST2CD103J VRD-ST2CD122J	J J	AA AA	10 kohm,1/6W 1.2 kohms,1/6W	304 305	NSFTM0291AFFW PCUSG0613AFZZ	J J	AD AC	Shaft,Guide Cushion
R826,827	VRD-ST2CD1223	J	AA	220 kohms,1/6W	△ 306	RCTRH8179AFZZ	J	BG	Pickup Unit Ass'y
R828,829	VRD-ST2EE102J	Ĵ	AA	1 kohm,1/4W	701	XBSSD26P06000	Ĵ	AA	Screw,ø2.6×6mm
R830,831	VRD-ST2CD102J	J	AA	1 kohm,1/6W	702	XHBSD20P05000	J	AA	Screw,ø2×5mm
R832 R833	VRD-ST2CD563J VRD-ST2CD562J	J	AA AA	56 kohms,1/6W 5.6 kohms,1/6W	703 704	XBBSD20P03000	J	AA AA	Screw,ø2×3mm Washer,ø4.5×ø1.5×0.25mm
R834	VRD-ST2CD3023	J	AA	1 kohm,1/6W	M701	LX-WZ1070AFZZ RMOTV0408AFM3	J J	AN	Motor with Chassis [Spindle]
R835	VRD-ST2CD471J	Ĵ	AA	470 ohms,1/6W	M702	RMOTV0409AFM1	Ĵ	AN	Motor with Gear [Sled]
R836,837	VRD-ST2CD473J	J	AA	47 kohms,1/6W	SW702	QSW-F9001AWZZ	J	ΑE	Switch,Push Type [Pickup In]
R838	VRD-ST2CD333J	J J	AA AA	33 kohms,1/6W 22 kohms,1/6W	CABINET	PARTS			
R839,840 R842	VRD-ST2CD223J VRD-ST2EE220J	J	AA	22 ohms,1/4W	OADINET	TAKIO			
R849	VRD-ST2CD104J	Ĵ	AA	100 kohm,1/6W	201	GCABA1010SJM1	J	ВА	Front Cabinet Ass'y
R856	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W	202	GCABC1001SJSA	J	AL	Top Cabinet
R857	VRD-ST2CD273J	J	AA	27 kohms,1/6W	203	GCABB1010SJSA	J	ΑZ	Rear Cabinet [U] Rear Cabinet [C]
R858 R860	VRD-ST2CD681J VRD-ST2CD102J	J J	AA AA	680 ohms,1/6W 1 kohm,1/6W	203 206	GCABB1011SJSA HPNLC1007SJSA	J J	AM	Panel,Control
R871	VRD-ST2CD472J	Ĵ	AA	4.7 kohms,1/6W	207	HPNLH1001SJSA	Ĵ	AN	Panel, Display
R873,874	VRD-ST2CD101J	J	AA	100 ohm,1/6W	208	HDECQ0001SJSA	J	AD	Cover,Volume
R875,876	VRD-ST2CD103J	J	AA	10 kohm,1/6W	209	JKNBK0007SJSA	J	AF	Knob, Volume
R877 R878	VRD-ST2EE221J VRD-ST2CD101J	J J	AA AA	220 ohms,1/4W 100 ohm,1/6W	210 211	LHLDW1001SJZZ MSPRC0002SJFD	J J	AD AC	Nylon Band Spring,Battery,+/-
R880	VRD-ST2CD101J	Ĵ	AA	100 ohm,1/6W	212	JHNDP1001SJSA	Ĵ	AE	Handle
					213	QANTR0001SJZZ	J	AG	Rod Antenna
OTHER CI	RCUITRY PAR	< 1 3	>		214	MSPRZ0001SJFD	J	AC	Spring,Rod Antenna
BI501/CNS501	QCNWN0024SJZZ	J	AQ	Connector Ass'y,10/10Pin	215 217	GFTAB1001SJSA JKNBK0002SJSA	J J	AD AC	Battery Compartment Lid Knob,X-BASS
	QCNWN0003SJZZ		AF	Connector Ass'y,8/8Pin	218	JKNBZ0004SJSA	J	AF	Knob,CD
BI802/CNS802	QCNWN0004SJZZ	J	AD	Connector Ass'y,5/5Pin	219	JKNBK0003SJSA	J	AC	Knob, Function
	QCNWN0005SJZZ		AE	Connector Ass'y,6/6Pin	221	GFTAC1001SJSA	J	AE	Cassette Lid
CNP101 CNP201	QCNCW001DSJZZ QCNCW001CSJZZ		AC AC	Plug,4Pin Plug,3Pin	222 223	MSPRD0001SJFD JBTN-0001SJSA	J J	AC AC	Spring,Cassette Lid Button,Pause
CNP501	QCNCW001CSJZZ		AH	Plug,10Pin	223	JBTN-0001SJSA JBTN-0002SJSA	J	AC	Button,Stop
CNP502	QCNCW001BSJZZ	J	AG	Plug,2Pin	225	JBTN-0003SJSA	J	AC	Button,FF
CNP602	QCNCW002BSJZZ	J	AC	Plug,2Pin	226	JBTN-0004SJSA	J	AC	Button,REW

	NO.	PART CODE	*	PRICE RANK	DESCRIPTION
	227	IDTN 000EC ICA	J	AC	Putton Dlay
	227 228	JBTN-0005SJSA JBTN-0006SJSA	J	AC	Button,Play Button,Rec
	229	LANGK0001SJFW	Ĵ	AC	Bracket,Button
	230	PGUMS0001SJZZ	J	AB	Cushion
	231	GFTAT1001SJSA	J	ΑE	CD Lid
	232	CHLDM1001SJ01	J	AG	Stabilizer Ass'y
	232- 1			_	Stabilizer (Not Replacement Item)
ļ	232- 2	PMAGF0002AWZZ	J	AE	Magnet
	233	MSPRP0001SJFW	J	AC	Lever,Record
	235	LHLDZ1002SJZZ	J	AC	Holder,LCD
	236	MSPRC0001SJFN	J	AC	Spring,Battery,-
	238 239	PRDAR0001SJZZ LHLDA1001SJZZ	J	AD AC	Heat Sink Holder,Bar Antenna
	240	TCAUZ0001SJZZ	J	AC	Caution,Batterry [C Only]
	241	CMECB0001SJ01	J	AY	Tape Mechanism Ass'y
Г	241- 1	9GD192104309	J	AR	Pinch Roller Arm Ass'y
	241- 2	9GD192107039	Ĵ	AE	Belt,RF
	241- 3	9GD192109389	J	AE	Belt, Main
	241- 4	9GD62070114	J	AL	Head,Playback/Record
	241- 5	9GD62091010	J	AM	Head,Erase
	241- 6(M601)	9GD192112343W	J	AX	Motor with Pulley [Tape]
•	, ,	9GD6401011499	J	AE	Switch,Leaf Type [Tape Main]
	242 242	TSPC-0011SJZZ	J	AK	Label, Specification [U]
	242	TSPC-0020SJZZ LANGF0010SJFW	J	АН	Label, Specifications [C] Bracket, AC Socket [U Only]
	244	LHLDZ1006SJZZ	J	AG	Bracket, Tuner
	245	CGERH0001SJ01	J	AF	Gear, Damper
	246	LHLDZ1004SJZZ	J	AF	Holder,LCD
	247	MSPRC0003SJFE	J	AF	Spring,Back Up
	248	JKNBZ0006SJSA	J	AL	Knob, Tuning
	249	LHLDZ1005SJZZ	J	AH	Bracket,LCD PWB
	250	MSPRD0002SJFD	J	AC	Spring,CD Lid
	601	XUBSD30P12000	J	AA	Screw,ø3×12mm
	602	XUBSD30P20000	J	AA AA	Screw,ø3×20mm
	603 604	XUBSD30P10000 XUBSD25P10000	J	AB	Screw,ø3×10mm Screw,ø2.5×10mm
	605	XWHSD28-08120	J	AB	Washer,ø2.8×ø12×0.8mm
	606	XUPSD25P08000	J	AB	Screw,ø2.5×8mm
	607	XUBSD30P08000	Ĵ	AA	Screw,ø3×8mm
	608	XBBSD20P04000	J	AA	Screw,ø2×4mm
	PACKING	PARTS [C ON	L١	<b>/</b> ]	
		SPAKA0001SJZZ	J	AK	Packing Add.,Left/Right
		SPAKC0019SJZZ	J	AIX	Packing Case
		SSAKH0001SJZZ	J	AC	Polyethylene Bag,Unit
	ACCESSO	RIES			, , , , , , , , , , , , , , , , , , ,
Δ	7	QACCD0006AW00	J	AP	AC Power Supply Cord
		TINSE0005SJZZ	J	AL	Operation Manual [U]
		TINSK0004SJZZ TLABRF217SJZZ	J	AL	Operation Manual [C] Label,Bar Code [C]
		TLABR0975SJZZ	J	AC	Label,Bar Code [U]
		TLABZ0013SJZZ	Ĵ	AB	Feature Label
	P.W.B. AS	SEMBLY (Not	R	epla	cement Item)
	PWB-A1~5	DCEKL0001SJ03	J	_	Main/Switch/Terminal/Head- phones/Spacer (Combined Ass'y)
	PWB-B1~4	DCEKN0001SJ03	J	_	Tuner Display/Switch/Battery/ Battery (Combined Ass'y)
	PWB-C	QPWBF3895AFZZ	J	AC	CD Motor (PWB Only)

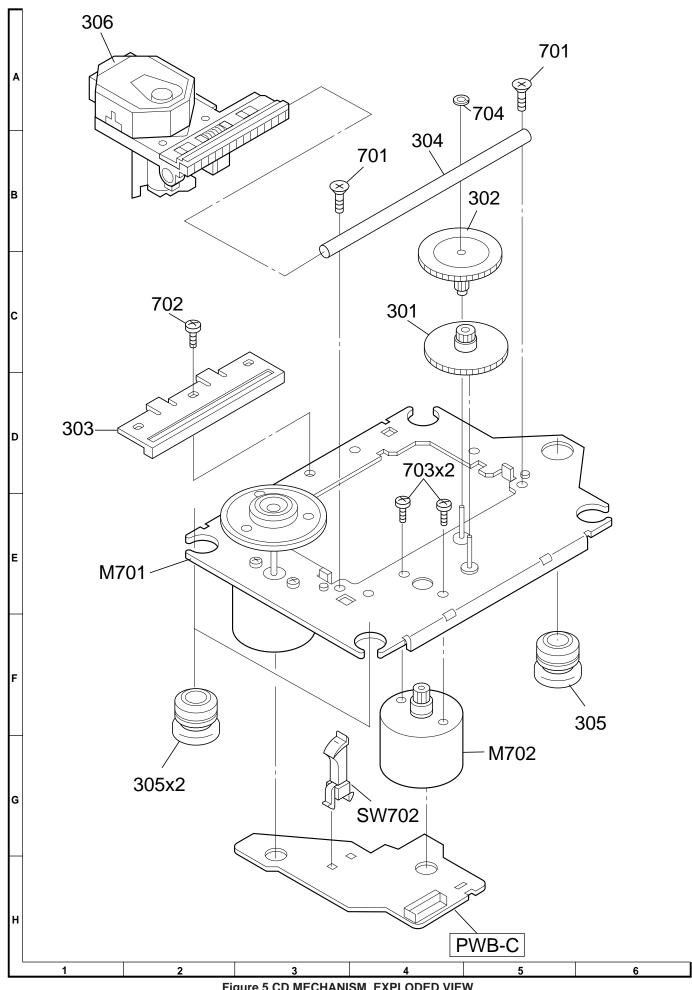
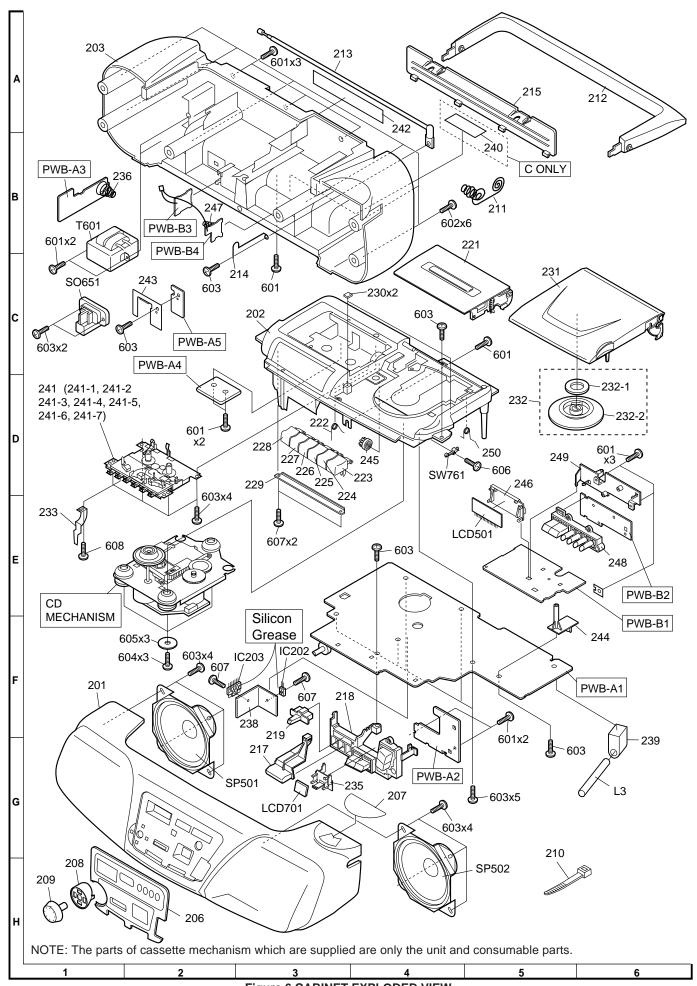


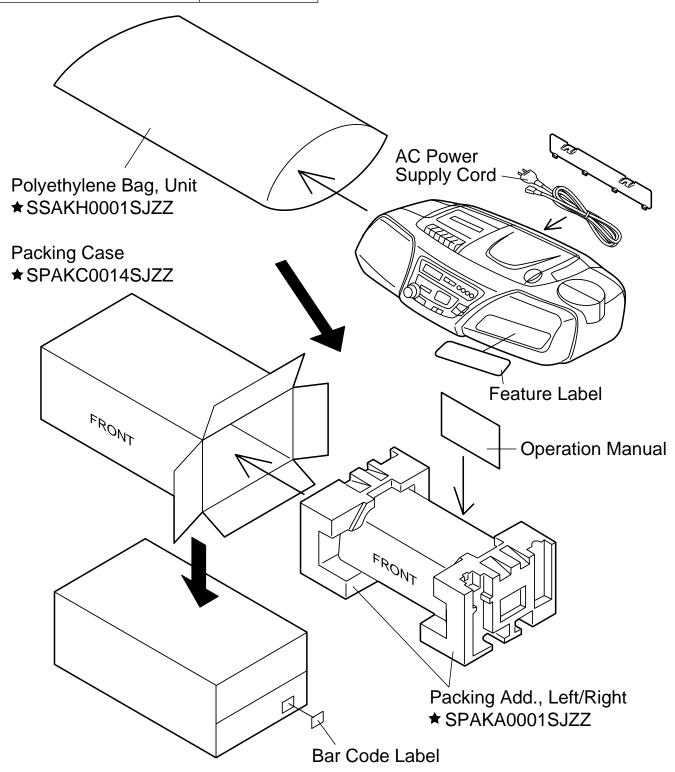
Figure 5 CD MECHANISM EXPLODED VIEW -5-



# PACKING OF THE SET (FOR QT-CD131 ONLY)

• Setting position of switches and knobs

Tape Mechanism Control	STOP STATE			
TUNING	LOW			
POWER/FUNCTION	OFF/TAPE			
X-BASS	OFF			
VOLUME	LOW			



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